510(k) SUMMARY OF SAFETY AND EFFECTIVENESS: BONESOURCE® HYDROXYAPATITE CEMENT (HAC) EXPANDED KIT

General Information

Proprietary Name:

BoneSource® Hydroxyapatite Cement (HAC)

Expanded Kit

Common Name:

Hydroxyapatite Cement (HAC)

Classification Name(s):

Prosthesis, Chin, Internal

Methyl Methacrylate for Cranioplasty

Classification Code(s):

79FWP

87GXP

Submitter:

Stryker Leibinger

4100 East Milham Avenue Kalamazoo, MI 49001

800-253-7370

Submitter's Registration #:

1811755

Manufacturer's Registration #:

2183449

Contact Person:

Kristyn R. Kelley

Project Engineer

Quality Assurance and Regulatory Affairs

800-253-7370 x5045

Summary Preparation Date:

April 14, 1999

Predicate Device

The BoneSource[®] Hydroxyapatite Cement (HAC) Expanded Kit is substantially equivalent to BoneSource Hydroxyapatite Cement (K953339, K864537 and K970400) and to Norian® CRS™ Craniofacial Repair System (K973789).

Device Description

The BoneSource[®] Hydroxyapatite Cement (HAC) Expanded Kit contains the previously-cleared BoneSource hydroxyapatite cement powder along with a new prefilled syringe containing sodium phosphate solution and a mixing spatula. Kits are being provided in sizes ranging from 5 g to 50 g.

DEPARTMENT OF HEALTH & HUMAN SERVICES



SEP 2 2 1999

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Ms. Kristyn R. Kelley Project Engineer Quality Assurance and Regulatory Affairs Stryker[®]Leibinger 4100 East Milham Avenue Kalamazoo, Michigan 49001

Re: K991398

Trade Name: BoneSource Hydroxyapatite Cement (HAC)

Regulatory Class: II Product Code: GXP, FWP Dated: July 19, 1999

Received: July 20, 1999

Dear Ms. Kelley:

We have reviewed your Section 510(k) notification of intent to market the device referenced above, and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General Regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA, finding of substantial equivalence of your device to a legally marketed predicate device, results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Furthermore, for questions regarding the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification (21 CFR 807.97)." Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597, or at its Internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely yours,

Cella M. Witten, Ph.D., M.D.

Director

Division of General and Restorative Devices Office of Device Evaluation Center for Devices and

Radiological Health

Enclosure

Page 1 of 1
510(k) Number (if known): not known K 99/398
Device Name: BoneSource® Hydroxyapatite Cement (HAC), Expanded Kit
Indications For Use:
The BoneSource® Hydroxyapatite Cement (HAC) Expanded Kit is indicated for use in the repart of neurosurgical burr holes, contiguous craniotomy cuts and other cranial defects with a surface area no larger than 25cm² per defect. BoneSource is also indicated for augmentation or restoration of bony contour in the craniofacial skeleton including the fronto-orbital, malar and mental areas.
(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)
(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER TAGE IT INDEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)
(Division Sign-Off)
Division of General Restorative Devices K991398
Prescription Use 1/2 OR Over-The- Counter Use 1/0 (Per 21 CFR 801 109)
(Optional Format 1-2-96)